

CURRICULUM VITAE

DATE: June 22, 2021

NAME: Hong Li, Ph.D.

PRESENT TITLE: Associate Professor with Tenure

OFFICE ADDRESS: Department of Microbiology, Biochemistry and Molecular Genetics, Rutgers-NJMS,
205 South Orange Ave., Newark, NJ 07103

TELEPHONE NUMBER/E-MAIL ADDRESS: 973-972-8396/liho2@rutgers.edu

CITIZENSHIP: USA

EDUCATION:

- A. Undergraduate Graduate and Professional
University of Nevada
Reno, NV
B.S. (Biochemistry) *Date Awarded: 1992*

- B. Graduate and Professional
University of Nevada
Reno, NV
Ph.D. (Biochemistry) *Date Awarded: 1997*

POSTGRADUATE TRAINING:

- A. Internship and Residencies N/A
Location
Discipline
Inclusive Dates

- B. Research Fellowships N/A
Location
Discipline
Inclusive Dates

- C. Postdoctoral Appointments
Albert Einstein College of Medicine.
Molecular Pharmacology
Bronx, NY
1997-1998

MILITARY: N/A

ACADEMIC APPOINTMENTS:

Rutgers University-Institute for Quantitative Biomedicine
Member
2017-present

Rutgers University-Cancer Institute of New Jersey
Member
2017-present

*Rutgers University-Brain Health Institute
Member
2014-present*

*Rutgers University-Rutgers Center for Lipid Research
Member
2010-present*

*Department of Microbiology, Biochemistry and Molecular Genetics
Rutgers University-NJMS
Associate Professor with Tenure
7/2013-present*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Associate Professor with Tenure
7/2010-7/2013*

*Rutgers-NJMS University Hospital Cancer Center
UMDNJ-NJMS
Member
7/2007-present*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Associate Professor
7/2005-6/2010*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Assistant Professor
1/2000-6/2005*

HOSPITAL APPOINTMENTS: N/A

*Department
Hospital Name
Title
Inclusive Dates (Month/Year)*

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS: *(If applicable)*

*Scientist II
Synaptic Pharmaceutical Corporation
Paramus, NJ
Biochemistry and Pharmacology
1998-1999*

PRIVATE PRACTICE *(If applicable):* N/A

LICENSURE: *specialty/#/expiration* N/A

DRUG LICENSURE: N/A

*CDS: #/expiration
DEA: #/expiration*

CERTIFICATION: *specialty/#/expiration* N/A

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:*American Society of Mass spectrometry**Member**1992-present**Association of Biomedical Research Facilities**Member**1992-present***HONORS AND AWARDS:***Title: Fulbright Research Fellow for Sabbatical Research at Pasteur Institute -Paris**Awarded By Commission Fulbright Franco-Américaine and US Department of State**Date 2017***BOARDS OF DIRECTORS/TRUSTEES POSITIONS: N/A****SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:***NIH NCRR Shared Instrumentation Program. ZRG1 BCMB-D (30) I 2009**NIH NIEHS - Biomarkers Indicative of Mitochondrial Dysfunction. ZES1 LWJ-J (MI) I 2011**NIH CSR - Technology Development of New Affinity Reagents against the Human Proteome
BST-M (51) 2011**NIH Special Emphasis Panel: Review Committee for Environmental Exposure and
Neurodegenerative Diseases (R21 & R01s) ZES1 LWJ K R I 2014**NIH Competitive Renewal Study Panel, Development for Protein Affinity Reagents.
ZRG12014 BST-K50 2014**NIH Special Emphasis Panel: Biochemistry and Biophysical Chemistry Fellowships
ZRG1 F04B-D (20) 2014**NIH ZNSI SRB-N (12): NINDS Institutional Center Core Grants to Support Neuroscience
Research (P30) & High Impact Neuroscience Research Resource Grants (R24)
ZRG1 F04B-D (20) 2016**NIH Site Visit, University of Washington, Seattle. Comprehensive Biology: Exploiting the
Yeast Genome. BIOMEDICAL TECHNOLOGY RESEARCH RESOURCE (P41)
2016-10 ZRG1 CB-D 40 P 2016**NIH CSR – Transformative Research Award (TRA) 2021***SERVICE ON MAJOR COMMITTEES:***A. International (Name, Inclusive Dates)**WELLCOME TRUST PROGRAMME GRANT Review Committee 2009**The Netherlands Organization for Health Research and Development, NWO Investment in Scientific
Infrastructure Grant Review Committee 2012**French Ministry of Higher Education and Research – Fulbright Selection Committee 2017**The Netherlands Organization for Health Research and Development 2018**Evaluation of research applications for the E-Rare Transnational research projects on hypothesis-driven use
of multiomic integrated approaches for discovery of diseases causes and/or functional validation in the
context of rare diseases, E-Rare JTC2018 Call Secretariat**Society for Redox Biology and Medicine 2018**Evaluation of research posters for the Young Investigator Awards*

Fulbright Egyptian Student Program 2019
Review Fulbright grants for Binational Fulbright Commission in Egypt

Fulbright Egyptian Student Program 2020
Review Fulbright grants for Binational Fulbright Commission in Egypt

- B. National (*Name, Inclusive Dates*)
C. Medical School/University (*Name, Inclusive Dates*)

NJMS Research Recognition Committee, 2017-2019
NJMS Faculty Council, 2015-2016
Vice President for Research, NJMS Faculty Organization, 2014-2015
Chair, Faculty Investigator Group, 2013-present
Hurricane Sandy Response Evaluation Committee, 2012-present
Proteomics Core Advisory Committee, 2000-present
Technology Task Force, 2008-present
Research Technology Advisory Group, RTAG, 2009-present
Newark Campus Laboratory Safety Committee, 2011-present
Branding and Image - Strategic Plan Steering Committee Workgroup, 2012
Rutgers Shared Instrumentation Grant Review Committee, 2014

- D. Hospital (*Name, Inclusive Dates*)
E. Department (*Name, Inclusive Dates*)

Biochemistry and Pathology/MBGC seminar program coordinator, 2011-2013
Computation and Network Committee, 2000-present

- F. Editorial Boards (*Journal Name, Inclusive Dates*)

Journal of Open Proteomics, 2009-present

- G. *AdHoc* Reviewer (*Journal Name, Inclusive Dates*)

Journal of Proteome Research, 2000-present
Journal of Proteomics, 2000-present
Journal of Neuroscience Method, 2005-present
Journal of Chromatography, 2010-present
Journal of Biological Chemistry, 2009-present
Journal of Cellular and Molecular Medicine, 2008-present
Mini-Reviews in Medicinal Chemistry, 2008-present
Molecular and Cellular Neuroscience, 2008-present
Bioinformatics, 2010-present
Cancer Therapy, 2009-present
Placenta, 2009-present
Expert Review in Proteomics- 2009-present
Antioxidant and Redox Signaling, 2010-present
Molecular Vision, 2010-present
Integrative Ophthalmology and Visual Science, 2011-present
Free Radical Biology and Medicine, 2011-present
Rapid Communication in Mass Spectrometry, 2011-present
Apoptosis, 2012- present
Developmental Neuroscience, 2012- present
Proteomics, 2012-present
Proteomics-Clinical Applications, 2012-present
BBA Proteomics, 2013-present
Amino Acids, 2020-present

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Thesis Committee: Keith Christophers – Biochemistry Mol Biology
Thesis Committee: Kenneth M. Wannemacher– Biochemistry Molec Biology
Thesis Committee: Veera D'mello– Biochemistry Mol Biology
Thesis Committee: Can Huang – Pharmacology Physiology
Thesis Committee: Chuanglong Cui -Microbiology
Thesis Committee: Narayani Nagarajan -Cell Biology
Thesis Committee: Dan Shao -Cell Biology
Thesis Committee: Jessica Mann -Microbiology
Thesis Committee: GANAPATHY Sriram – Microbiology, Biochemistry Molec Genetics
Thesis Committee: Geng Ke – Microbiology, Biochemistry Molec Genetics
Thesis Committee: Jaemin Byun –Cell Biology and Molecular Medicine
Thesis Committee: Narayani Nagarajan–Cell Biology and Molecular Medicine
Thesis Committee: Yangfe Yang–Cell Biology and Molecular Medicine
Thesis Committee: Sara Gilmast– Pharmacology Physiology
Thesis Committee: Ju Youn Lee– Biochemistry Mol Biology
Thesis Committee: Anton Kolomeyer– Ophthalmology
Thesis Committee: Iab Campbell – Microbiology, Biochemistry Molec Genetics

SERVICE ON HOSPITAL COMMITTEES:

SERVICE TO THE COMMUNITY:

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

<i>Gang Xiao</i>	<i>2001-2002</i>
<i>Yan Li</i>	<i>2002-2004</i>
<i>Longwen Deng</i>	<i>2002-2004</i>
<i>Jin Qian</i>	<i>2003-2005</i>
<i>Tong Liu</i>	<i>2004-present</i>
<i>Sanqiang Pan</i>	<i>2004-2005</i>
<i>Qun Wang</i>	<i>2004</i>
<i>KS Latha</i>	<i>2005</i>
<i>Oleg Borisov</i>	<i>2005</i>
<i>Mohit R. Jain</i>	<i>2005-2014</i>
<i>Shengjie Bian</i>	<i>2005-2008</i>
<i>Cexiong Fu</i>	<i>2005-2009</i>
<i>Yan Wang</i>	<i>2006</i>
<i>Ahmet T. Baykal</i>	<i>2006-2008</i>
<i>Wei-wen Ge</i>	<i>2006-2007</i>
<i>Jennifer E. Grant</i>	<i>2006-2007</i>
<i>Changgong Wu</i>	<i>2007-2014</i>
<i>Bingjun Jiang</i>	<i>2009-2010</i>
<i>Andrew Parrott</i>	<i>2010-2011</i>
<i>Qing Li</i>	<i>2010-2013</i>
<i>Amit Ketkar</i>	<i>2010-2011</i>

TEACHING RESPONSIBILITIES: (Teaching effectiveness should be addressed in nominating letter)

A. Lectures or Course Directorships
School, course name, lecture title, hours

GRADUATE COURSE	DATE	SCHOOL	DIRECTOR
<i>Protein Structure</i>	<i>Fall 2000</i>	<i>NJMS</i>	<i>Wagner</i>

<i>Core Curriculum</i>	<i>Fall 2000</i>	<i>NJMS</i>	<i>Howells</i>
<i>Molecular Biology of the News</i>	<i>Spring 2001</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Biochemical Techniques</i>	<i>Spring 2001</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Biophysical Chemistry</i>	<i>Spring, 2001</i>	<i>Rutgers-NWK</i>	<i>Jordan</i>
<i>Protein Structure</i>	<i>Fall 2001</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Bioinformatics</i>	<i>Spring 2002</i>	<i>NJMS</i>	<i>Byrnes</i>
<i>Computational Biology</i>	<i>Spring 2002</i>	<i>RWJMS</i>	<i>Byrnes</i>
<i>Molecular Biology of the News</i>	<i>Spring 2003</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Advanced Immunology</i>	<i>Spring 2003</i>	<i>NJMS</i>	<i>Raveche</i>
<i>Protein Structure</i>	<i>Fall 2003</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Analytical Method</i>	<i>Fall 2004</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Protein Structure</i>	<i>Fall 2004</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Molecular Biology of the News</i>	<i>Spring 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Adv Genomics, Proteomics</i>	<i>Fall 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Protein Structure</i>	<i>Fall 2005</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2006</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Fundamental of Biochem</i>	<i>Spring 2006</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2006</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Protein Structure</i>	<i>Fall 2006</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Cell Biology</i>	<i>Fall 2006</i>	<i>Rutgers-NWK</i>	<i>Kim</i>
<i>Adv Genomics, Proteomics</i>	<i>Spring 2007</i>	<i>NJMS</i>	<i>Tian</i>
<i>Molecular Biology of the News</i>	<i>Spring 2007</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Master Core Course</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2008</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2008</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Master Core Course</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2009</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Molecular Biology of the News</i>	<i>Spring 2009</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2009</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2009</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2010</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2010</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Core Course</i>	<i>Fall 2010</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2011</i>	<i>NJMS</i>	<i>Tian</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2011</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Core Course</i>	<i>Fall 2011</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Tian</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Core Course</i>	<i>Fall 2012</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2012</i>	<i>NJMS</i>	<i>Birge</i>
<i>Molecular Biology of the News</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Pandey</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Li</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>IBMS</i>	<i>Fall 2013</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2013</i>	<i>NJMS</i>	<i>Birge</i>
<i>Fundamental of Biochem</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Molecular Biology of the News</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Pandey</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Li</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>IBMS</i>	<i>Fall 2014</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2014</i>	<i>NJMS</i>	<i>Birge</i>

GMM	Fall 2014	NJMS	O'Connor
Molecular Biology of the News	Spring 2015	NJMS	Pandey
Intro to Genomics, Proteomics	Spring 2015	NJMS	Li
Protein Dynamics in Health	Spring 2015	NJMS	Suzuki
IBMS	Fall 2015	NJMS	Coffman
Medical School MCS	Fall 2015	NJMS	Humayun
IBMS	Fall 2016	NJMS	Mathews
Medical School MCS	Fall 2016	NJMS	Humayun
Intro to Genomics, Proteomics	Spring 2017	NJMS	Hasimi
IBMS	Fall 2017	NJMS	Rogers
Intro to Genomics, Proteomics	Spring 2018	NJMS	Hasimi
Medical School MCS	Fall 2018	NJMS	Suzuki
IBMS	Fall 2018	NJMS	Mathews
Intro to Genomics, Proteomics	Spring 2019	NJMS	Hasimi
Medical Biochemistry & Genetics	Spring 2019	NJMS	Humayun
Ethical Scientific Conduct	Spring 2019	NJMS	Lutz
Medical School MCS	Fall 2019	NJMS	Suzuki
IBMS	Fall 2019	NJMS	Mathews
Intro to Genomics, Proteomics	Spring 2020	NJMS	Husain
Medical Biochemistry & Genetics	Spring 2020	NJMS	Humayun
Medical School MCS	Fall 2020	NJMS	Suzuki
IBMS	Fall 2020	NJMS	Mathews
Intro to Genomics, Proteomics	Spring 2021	NJMS	Husain
Medical Biochemistry & Genetics	Spring 2021	NJMS	Humayun

B. Research Training

Post Doctoral Fellows: *name, dates (inclusive) of training*

Gang Xiao	2001-2002
Yan Li	2002-2004
Longwen Deng	2002-2004
Jin Qian	2003-2005
Tong Liu	2004-present
Sanqiang Pan	2004-2005
Qun Wang	2004
KS Latha	2005
Oleg Borisov	2005
Mohit R. Jain	2005-2014
Shengjie Bian	2005-2008
Cexiong Fu	2005-2009
Yan Wang	2006
Ahmet T. Baykal	2006-2008
Wei-wen Ge	2006-2007
Jennifer E. Grant	2006-2007
Changgong Wu	2007-2014
Bingjun Jiang	2009-2010
Andrew Parrott	2010-2011
Qing Li	2010-2013
Amit Ketkar	2010-2011

Pre Doctoral Students: *name, dates (inclusive) of training*

Predocrotal Rotation Students Supervised

Zhengbin Zhang	2002
Veera D'mello	2003
Kenneth M. Wannemacher	2005
Raghavendra, Shamma	2007
Raghavendr Sridhar	2014
Chuanlong Cui	2015-present
Brian Jun (Dental School)	2018
Ian Casaren (High School)	2018
Johanna Lu (High School)	2018

CLINICAL RESPONSIBILITIES: (Clinical effectiveness should be addressed in nominating letter)

GRANT SUPPORT: (Please list newest or most current first)

A. Principal Investigator

Current

- 1. R01GM112415 (P.I.: Annie Beuve and Co-Investigator Hong Li (10%))**
National Institutes of Health
NO Signaling by a Soluble Guanylyl Cyclase-Thioredoxin Transnitrosation
04/01/15 to 08/31/24
Total Cost: \$ 2,770,073
Total Direct: \$ 1,775,687

Hong Li Portion
Li efforts: 10%
Tong Liu efforts 20%
Additional supplies for proteomics
- 2. 3R01DK118222-03S1 (P.I. Evren Azeloglu, Mt Sinai School of Medicine. Hong Li, P.I.- Proteomics Core)**
National Institutes of Health
Mechanosensitive Determinants of Podocyte Physiology- Covid 19 Supplement
7/1/20-6/30/21
Total Cost: \$468,762

Hong Li Portion for Rutgers Subcontract
Li efforts: 5%
Additional supplies for proteomics: ~\$100,000
- 3. RENALYTIX AI contract (P.I. Evren Azeloglu, Mt Sinai School of Medicine. Hong Li, P.I.- Proteomics Core)**
Renalytix AI
Multi-center Assessment of Survivors for Kidney Disease after COVID-19 (MASKeD-COVID)
7/1/21-6/30/22
Total Cost: N/A

Hong Li Portion for Rutgers Subcontract
Li efforts: 5%
Total Cost for Rutgers \$260,000
- 4. P30NS046593 (Contact PI, Multi-PI with Peter Lobel, RWJMS)**
National Institutes of Health

Rutgers Mass Spectrometry Center for Integrative Neuroscience Research
07/01/15 to 06/30/21 (No-cost extension)
Total Cost: \$2,544,000
Total Direct: \$1,600,000

Hong Li Portion
Li efforts: 20%, with 5% on grant
Total Cost: \$1,526,400
Total Direct: \$960,000

5. **19PRE34380102**
(AHA Predoctoral Fellowship, P.I. Chuanlong Cui, Mentors: Hong Li & Annie Beuve)
American Heart Association
Mechanism and Function of NO-induced Disulfide Switches in Soluble Guanylyl Cyclase
01/01/2019 to 12/31/2020
Total Cost: \$53,688

6. **Busch Biomedical Grant (Li/Friedman)**
Axonal novel protein synthesis in retrograde neurotrophic signaling and brain injury
09/01/20-09/30/22
The goal of this project is to investigate the regulation of neurotrophins and proneurotrophins retrograde signaling on axonal integrity and neuronal survival of the afferent basal forebrain neurons. This grant will aid our development of new proteomics methods to quantify newly synthesized proteins.
Total Cost: \$40,000

7. **NJ Health Foundation Grant (Li/Xia)**
Understanding the mechanism of BRCA1 in cell cycle checkpoint control by phosphoroteomics
04/01/20-03/31/22
In this proposal, Dr. Xia, a cancer biologist at CINJ in New Brunswick will team up with Dr. Hong Li, an expert on cell signaling pathways at NJMS in Newark, to identify proteins, whose on-and-off switches, known as phosphorylation, are regulated by BRCA1. This grant will aid our development of new proteomics methods to quantify phosphoproteins.
Total Cost: \$35,000

8. **Rutgers Office of Research Grant (Li)**
Single-Cell Proteomics
11/01/20-10/31/21
The ORED grant award comprises \$70,000 directed to development of single-cell sequencing and other targeted proteomics techniques as well as partial support of a new technician in CAPR; for bioinformatics and biostatistics support, as well pilot funds to work with a Rutgers investigator using the novel techniques funded by this grant. This grant will aid our development of new proteomics methods to quantify proteins in single-cells and in clinical samples.
Total Cost: \$70,000

Past

9. **U54HG008098 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)**
National Institutes of Health
Drug Combination Signatures for Prediction and Mitigation of Toxicity
9/10/14-6/30/20
Total Cost: \$12,598,116
Total Direct: \$7,743,690

Hong Li Portion for Rutgers Subcontract

Total Cost: \$908,904
Total Direct: \$571,650

10. S10 OD025047(P.I.: Hong Li)

National Institutes of Health
Orbitrap Fusion Lumos Tribrid MS System for Proteomics Research at Rutgers Newark Campus
05/01/18 to 04/30/19
Total Direct: \$1,092,346

11. Fulbright Research Scholar Award

J. William Fulbright Foreign Scholarship Program
Advanced Protein Technology Research Collaboration between Institut Pasteur and Rutgers University
09/01/17—01/15/18
Total Award: €12,000

12. RC-18-AA-00185 (P.I.: Hong Li)

Rutgers Research Council Grant Award
A Transnitrosation Cascade in Heart Health
06/01/17—5/31/18
Total Award: \$3,000

13. P30NS046593 (P.I.: Hong Li)

National Institutes of Health
Renewal of a UMDNJ NeuroProteomics Core Facility
12/1/2004-11/30/15
Total Cost: \$ 7,352,207
Total Direct: \$4,932,287

14. P50GM071558-06A1 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)

National Institutes of Health
SYSTEM BIOLOGY CENTER IN NEW YORK
9/1/13 to 8/31/14
Total Cost: \$2,000,001
Total Direct: \$1,264,580

Hong Li Portion for Rutgers Subcontract

Total Cost: \$39,750
Total Direct: \$25,000

15. UMDNJ Foundation Award

Proteomic Analysis of Trx1 Mediated Redox Signal Transduction
7/01/07-6/30/09
Total Cost: \$70,000
Total Direct: \$70,000

16. NJ Equipment Leasing Fund Award

New Jersey Commission on Higher Education
Establishment of Center for Advanced Proteomics
10/15/01-10/14/03
Total Cost: \$1,660,000
Total Direct: \$1,660,000

Pending

RM1 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)
National Institutes of Health
Mechanisms of Human Cellular Robustness
4/01/20-3/31/25

Hong Li Portion for Rutgers Subcontract
Total Cost: \$795,000
Total Direct: \$500,000

IR01GM136813-01 (Multi-P.I. Edouard Azzam & Hong Li, P.I.-Corresponding PI)
National Institutes of Health
The role of targeted S-nitrosylation by Trx1 in breast cancer radioresistance
9/01/20-8/31/25

Hong Li Portion
Total Cost: \$1,289,590
Total Direct: \$822,646

B. Co-Investigator

Current

N/A

Past

1. **R01AG023039 (P.I. Junichi Sadoshima)**
National Institutes of Health
Redox Regulation in Myocardial Disease
05/15/14 to 01/31/19
Total Cost: \$1,351,640
Total Direct: \$950,716
2. **R01HL112330 (P.I. Junichi Sadoshima)**
National Institutes of Health
REGULATION OF MYOCARDIAL GROWTH AND DEATH BY THE HIPPO PATHWAY
2/1/12 to 11/30/16
Total Cost: \$2,214,320
Total Direct: \$1,419,435
3. **R01HL091469 (P.I. Junichi Sadoshima)**
National Institutes of Health
CARDIOPROTECTIVE EFFECTS OF THIOREDOXIN 1
3/3/13 to 02/28/18
Total Cost: \$2,659,030
Total Direct: \$1,675,860
4. **IR21AI076937-01A1 (Sergei Kotenko, P.I.)**
National Institutes of Health
Evasion of antiviral protection by poxvirus-encoded interferon antagonists
6/05/09-5/31/11
Total Cost: \$427,625
Total Direct: \$275,000
5. **IR21AI073703-01A1 (Virendra Pandey, P.I.)**

National Institutes of Health
Proteomics of HCV Replication Complex
5/07/09-4/30/11
Total Cost: \$427,625
Total Direct: \$275,000

6. ALR TIL Grant Award (Sergei Kotenko, P.I.)

American Lupus Research
1/1/09-12/31/10
Total Cost: \$ 489,202
Total Direct: \$ 452,964

7. Columbia University (Edouard Azzam, P.I.)

High Throughput Minimally Invasive Radiation Biodosimetry Center
8/1/08-7/31/10
Total Cost: \$85,000
Total Direct: \$67,460

8. IS10RR021102 (Lin Yan, P.I.)

National Institutes of Health
QSTAR Elite Pro High Performance Quadrupole Time-of-Flight Mass Spectrometer
4/1/07-3/31/08
Total Cost: \$475,875
Total Direct: \$475,875

9. IR21GM079255 (Beatrice Haimovich, P.I.)

National Institutes of Health
Induction of Autophagy in Human Macrophages by Lipopolysaccharide
1/01/07-12/31/08
Total Cost: \$427,900
Total Direct: \$275,000

10. 2R01AI034552-12A1 (Michael Mathews, P.I.)

National Institutes of Health
Functions of Double-stranded RNA Binding Proteins
7/15/04-6/30/09
Total Cost: \$2,634,116
Total Direct: \$1,702,888

11. IR01AI057468-01A1 (Sergei Kotenko, P.I.)

National Institutes of Health
Role of Interferon-lambda in Antiviral Response
12/16/04-11/30/09
Total Cost: \$1,935,425
Total Direct: \$1,250,000

12. IR01HL067871-01A2 (Gill Diamond, P.I.)

National Institutes of Health
Host-Pathogen Interactions in the Mammalian Airway
Role: Co-investigator
4/1/03-3/31/07
Total Cost: \$1,244,000
Total Direct: \$800,000

13. IS10 RR15800-01A1 (Michael Mathews, P.I.)

National Institutes of Health
Integrated LC/MS/MS System-LCQ

5/1/02-4/30/03
Total Cost: \$307,650
Total Direct: \$307,650

14. DBI-0100831 (Michael Mathews, P.I.)

National Science Foundation
Integrated LC/MS/MS System-QTOF
5/15/01-5/14/03
Total Cost: \$326,275
Total Direct: \$326,275

15. 2R01DA009113-04A1 (Richard Howells, P.I.)

National Institutes of Health
Purification and Mass Spectrometry of Opioid Receptors
4/01/93-1/31/08
Total Cost: \$971,875
Total Direct: \$625,000

PUBLICATIONS: (Please list newest or most current first; published or accepted for publication only; should be segregated into the following categories)

A. Refereed Original Article in Journal

1. Xiaowen Wang, Jun Yang, Justin Wong, Jessie Yanxiang Guo, Holly Van Remmen, **Hong Li**, Eileen White, Chen Liu, Megerditch Kiledjian and X.F. Steven Zheng (2021), SOD1 Is Crucial for Growth and Ribosome Biogenesis in KRAS-p53 Driven Lung Tumors in Mice. *Nature Communications*. In Press.
2. Zhiqiang Pan, Shibin Du, Kun Wang, Xinying Guo, Qingxiang Mao, Xiaozhou Feng, Lina Huang, Shaogen Wu, Bailing Hou, Yun-Juan Chang, Tong Liu, Tong Chen, **Hong Li**, Thomas Bachmann, Alex Bekker, Huijuan Hu, Yuan-Xiang Tao (2021), Downregulation of a Dorsal Root Ganglion-Specifically Enriched Long Noncoding RNA is Required for Neuropathic Pain by Negatively Regulating RALY-Triggered Ehmt2 Expression. *Advanced Science*. In Press. <https://doi.org/10.1002/advs.202004515>
3. Baljinnayam E., Venkatesh S., Tong M., Yan L., Liu T., **Li H.**, Xie L.-H., Suzuki C., Fraidenraich D., and Sadoshima J. (2021). Proteomic analysis of mitochondrial biogenesis in cardiomyocytes differentiated from human induced pluripotent stem cells. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*. 320(4):R547-R562. doi: 10.1152/ajpregu.00207.2020.
4. Yadaw, A., Siddiq, M., Tolentino, R., Rabinovic, h V., Jayaraman, G., Jain, M., Liu, T., **Li, H.**, Goldfarb, J., Iyengar, R., Hansen, J. (2021) Whole cell response to receptor stimulation involves many deep and distributed subcellular processes. Submitted
5. Marc A. Egerman, Jenny S. Wong, Tian Runxia , Gohar Mosoyan , Kinsuk Chauhan , Joselyn Reyes-Bahamonde , Nanditha Anandakrishnan , Nicholas J. Wong , Emilia Bagiella , Fadi Salem , Kristin Meliambro , **Hong Li** , Evren U. Azeloglu , Steven G. Coca , Kirk N. Campbell and Leopoldo Raij. (2020). Plasminogenuria is associated with podocyte injury, edema and kidney dysfunction in incident glomerular disease. *The FASEB Journal*. In Press.
6. Davra, V., Saleh, T., Geng, K., Kimani, S., Mehta, D., Kasikara, C., Smith, B., Colangelo, N., Ciccarelli, B., **Li, H.**, Azzam, E., Kalodimos, C., Birge, RB., Kumar, A., (2020) Cyclophilin A inhibitor Debio-025 targets Crk, reduces metastasis, and induces tumor immunogenicity in breast cancer. *Mol Cancer Res* Apr 22. pii: molcanres.1144.2019. doi: 10.1158/1541-7786.MCR-19-1144.
7. Himelman E, Lillo MA, Nouet J, Gonzalez JP, Zhao Q, Xie LH, Li H, Liu T, Wehrens XH, Lampe PD, Fishman GI, Shirokova N, Contreras JE, Fraidenraich D. (2020) Prevention of Connexin43 remodeling protects against Duchenne muscular dystrophy cardiomyopathy. *J Clin Invest* 130(4):1713-1727.
8. Calizo, R., van Hasselt, C., Bhattacharya, S., Wong, J., Wiener, R., Wong, N., Lee, J., Wei, C., Jayaraman, G., Ge, X., Au, H. W., Janssen, W., Liu, T., **Li, H.**, Murphy, B., Campbell, K.,

- Azeloglu, E. (2019) Disruption of podocyte cytoskeletal biomechanics by dasatinib leads to nephrotoxicity. *Nature Communication*. 10(1):2061.
9. Nakamura, M., Liu, T., Husain, S., Zhai, P., Warren, J. S., Chiao-Po Hsu, Matsuda, T., Phiel, C. J., Cox, J., Tian, B., Klein, P. S., **Li, H.**, Sadoshima, J. (2019) Glycogen Synthase Kinase-3 α Promotes Fatty Acid Anabolism and Lipotoxic Cardiomyopathy. *Cell Metab*. 29(5):1119-1134.e12
 10. Saito, T., Monden, Y., Maejima, Y., Ikeda, Y., Mukai, R., Sciarretta, S., Liu, T., **Li, H.**, Baljinnyam, E., Fraidenraich, D., Fritsky, L., Zhai, P., Ichinose, S., Isobe, M. Hsu, C.-P., Kundu, M., and Sadoshima, J. (2019) An alternative mitophagy pathway mediated by Rab9 protects the heart against ischemia. *J Clin Invest*. 129(2):802-819.
 11. Cui, C., Liu, T., Chen, T., Lu, J., Casaren, I., Lima, D., Carvalho, P., Beuve, A., **Li, H.** Comprehensive Identification of Protein Disulfide Bonds with Pepsin/Trypsin Digestion, Orbitrap HCD and Spectrum Identification Machine. (2019). *J Proteomics*. S1874-3919(18)30439-1
 12. Chen, L., Bian, S., **Li, H.**, and Madura, K., (2018) A role for *Saccharomyces cerevisiae* Centrin (Cdc31) in mitochondrial function and biogenesis. *Molecular Microbiology*. 110(5):831-846.
 13. Zhong, F., Chen, H., Azeloglu, E., Wei, C., Zhang, W., Li, Z., Chuang, Y.P., Jim, B., **Li, H.**, Chen, H., Wang, Y., Jia, W., Lee, K. and He, C.J. (2018) Protein S Protects Against Podocyte Injury in Diabetic Nephropathy, *J Am Soc Nephrol*. 29(5):1397-1410.
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 16. Elzakra, N., Cui, L., Liu, T., **Li, H.**, Huang, J., Hu, S., (2017) Mass spectrometric analysis of SOX11-binding proteins in head and neck cancer cells demonstrates the interaction of SOX11 and HSP90 α . *Journal of Proteome Research*. Nov 3;16(11):3961-3968.
 17. Wu, C., Dai, H., Yan, L., Cui, C., Liu, T., Chen, T., and **Li, H.** (2017) Sulfonation of the Resolving Cysteine in Human Peroxiredoxin 1: A Comprehensive Analysis by Mass Spectrometry. *Free Radical Biology & Medicine*. Apr 25;108:785-792.
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 19. Heffernan C., Jain M.R., Liu T., Kim H., Barretto K., Li H., Maurel P. (2017) Nectin-like 4 complexes with Choline Transporter-Like protein-1, and regulates Schwann cell choline homeostasis and lipid biogenesis in vitro. *J Biol Chem*. Mar 17;292(11):4484-4498.
 20. Hammerling, B., Najor, R., Cortez, M., Shires, S. Leon, L., Moreno, E., Boassa, D., Phan, S., Thor, A., Jimenez, R., **Li, H.**, Kitsis, R., Dorn, G., Sadoshima, J., Ellisman, M., and Gustafsson, A. (2017) A Rab5 Endosomal Pathway Mediates Parkin-Dependent Mitochondrial Clearance, *Nature Communications*. Jan 30;8:14050.
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B. Books, Monographs and Chapters

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C. Patents Held
None

D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications

1. Grant, J and **Li, H.**, (2016). Post-Translational Modifications and Proteolysis in Neuroscience Studies - Introduction. In *Analysis of Post-Translational Modifications and Proteolysis in Neuroscience*. Springer, New York, Grant, J., Li, H., (Eds).
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E. Abstracts: *None*

F. Reports: *None*

PRESENTATIONS:

A. Scientific (*Basic Science Seminars*):

International

1. Fu, C, Wu, C, Liu, T, Ago, T, Sadoshima J and **Li, H.** (2009) Proteomic Identification of Thioredoxin Reductive Target Proteins. 11th Int. Congress on Amino Acids, Peptide and Protein. Vienna, Austria.
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3. **Li, H.** (2017) MS Identification of Redox PTMs Regulated by Nitric Oxide. Institut Pasteur, Paris, France.
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 13. Shengjie Bian, **Hong Li**, Jade Liu, Andrew L. Harris & Darren Locke. (2008) Posttranslational Modifications of Connexin26 IDENTIFIED by MALDI-TOF/TOF Mass Spectrometry. ASCB.
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 21. **Li, H.**, (2010) Redox regulatory mechanism of transnitrosylation by thioredoxin. Stevens Institute of Technology, Hoboken, NJ.
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31. **Li, H.,** (2017) Nitric Oxide-induced Redox Modifications of Soluble Guanylyl Cyclase. Rutgers Center for Integrative Proteomics Research.
32. **Li, H.,** (2017) Proteomic Identification of Redox-Dependent Cell Survival Targets of Thioredoxin. CINJ Cancer Pharmacology Research Program.

B. Professional (*Clinical*): N/A